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#2

RAW SEQUENCE LISTING

DATE: 12/04/2001

PATENT APPLICATION: US/09/852,209A / TIME: 13:32:29

Input Set : N:\Crf3\RULE60\09852209A.txt
Output Set: N:\CRF3\12042001\I852209A.raw

5 <110> APPLICANT: ERIKSSON, Ulf
7 AASE, Karin
9 LEE, Xuri
11 PONTEN, Annica
13 UUTELA, Marko
15 ALITALO, Kari
17 OESTMAN, Arne
19 HELDIN, Carl-Henrik
21 BETSHOLTZ, Christer
25 <120> TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR C, DNA CODING
27 THEREFOR, AND USES THEREOF
31 <130> FILE REFERENCE: 09-410349-Eriksson et al-1064-44740
35 <140> CURRENT APPLICATION NUMBER: 09/852,209A
36 <141> CURRENT FILING DATE: 2001-05-10
39 <150> PRIOR APPLICATION NUMBER: 09/410,349
40 <151> PRIOR FILING DATE: 1999-09-30
44 <150> PRIOR APPLICATION NUMBER: 60/110,749
46 <151> PRIOR FILING DATE: 1998-12-03
50 <150> PRIOR APPLICATION NUMBER: 60/113,002
52 <151> PRIOR FILING DATE: 1998-12-18
56 <150> PRIOR APPLICATION NUMBER: 60/135,426
58 <151> PRIOR FILING DATE: 1999-05-21
62 <150> PRIOR APPLICATION NUMBER: 60/144,022
64 <151> PRIOR FILING DATE: 1999-07-15
68 <160> NUMBER OF SEQ ID NOS: 39
72 <170> SOFTWARE: PatentIn Ver. 2.0
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82 <213> ORGANISM: Homo sapiens
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98 <221> NAME/KEY: UNSURE
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102 <223> OTHER INFORMATION: Can be any amino acid residue
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112 <223> OTHER INFORMATION: Can be any amino acid residue
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118 <221> NAME/KEY: UNSURE
120 <222> LOCATION: (14)
122 <223> OTHER INFORMATION: Can be any amino acid residue
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 148 <221> NAME/KEY: unsure
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 152 <223> OTHER INFORMATION: can be a, c, g or t
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 190 gttgacatctg ccctggccgg ccagagacga gggactcagg cggaatccaa cctgagtagt 120
 192 aaattccagt ttccagcaa caaggaacag aacggagttac aagatcctca gcatgagaga 180
 194 attattactg tgcactaa tggaaagtatt cacagccaa gtttcctca tacttatcca 240
 196 agaaatacgg tcttggatg gagatttaga gcagtagagg aaaatgtatg gatacaactt 300
 198 acgtttgatg aaagatttgg gtttgaagac ccagaagatg acatatgcaaa gtatgatttt 360
 200 gtagaaagttt aggaacccag tggaaactt atattaggc gctgggttgg ttctggtaact 420
 202 gtaccaggaa aacagatttca taaaggaaat caaatttaga taagatttgt atctgtgaa 480
 204 tattttcctt ctgaaccagg gttctgcattt cactacaaca ttgtcatgccc acaattcaca 540
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 208 gctataactg ctttttagtac cttggaaagac cttattcgat atcttgcacc agagagatgg 660
 210 cagttggact tagaaatgtt atataggccaa acttggcaac ttcttggcaaa ggctttgtt 720
 212 tttggaaat aatccagatg ggtggatctt aacccctaa cagaggaggt aagattatac 780
 214 agctgcacac ctcgttaactt ctcgtgtcc ataaggaaag aactaaagag aaccgatacc 840
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 222 ctggagcacc atgaggagtg tgactgtgtc tgcaaggaggaa gcacaggagg atagccgc 1080
 224 caccaccaggc agctttgcacc cagagctgtc cagtcgttgc gctgatttca ttagagaacg 1140
 226 tatgcgttat ctccatcctt aatctcaggat gtttgcatttca aggacccatc atcttcaggaa 1200
 228 tttacagtgc attctgaaatg aggagacatc aaacagaattt aggatgttgc caacagctt 1260
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 234 gtttgcattt tcagtttgc ttgggtat gtcagttacag gaaaaaaaact 1440
 236 gtcgttgcattt ccgttgcctt gcttaactt aaagctccat gtcctggcc 1500
 238 taaaatcgta taaaatctgg atttttttt ttttttttgc tcatattcaccat atatgtaaac 1560

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Input Set : N:\Crf3\RULE60\09852209A.txt
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240 cagaacattc tatgtactac aaacctgggtt tttaaaaagg aactatgttg ctatgaatta 1620
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244 catttagaag aagagaacta cattcatggt ttggaagaga taaacctgaa aagaagagtg 1740
246 gccttatctt cactttatcg ataagtcaatgtt ttatgttac atttttat 1800
248 ttccttttgc acattataac tggtggctt tctaatttttgc ttaaatatctat 1860
250 caaaggattt taatattctt ttttatgaca acttagatca actatttta gcttggtaaa 1920
252 ttttctaaa cacaattgtt atagccagag gaacaaagat ggtatataaa atattgttgc 1980
W--> 254 cctggacaaa aatacatgtt tntccatccc ggaatggtgc tagagttgaa ttaaacctgc 2040
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258 ataattaa 2108
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266 <212> TYPE: PRT
268 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 3
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282 20 25 30
286 Ser Ser Asn Lys Glu Gln Asn Gly Val Gln Asp Pro Gln His Glu Arg
288 35 40 45
292 Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg Phe Pro
294 50 55 60
298 His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val Ala Val
300 65 70 75 80
304 Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu
306 85 90 95
310 Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu
312 100 105 110
316 Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr
318 115 120 125
322 Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe
324 130 135 140
328 Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr
330 145 150 155 160
334 Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val Ser Pro Ser Val Leu
336 165 170 175
340 Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala
342 180 185 190
346 Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp
348 195 200 205
352 Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly
354 210 215 220
358 Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu
360 225 230 235 240
364 Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser
366 245 250 255
370 Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro
372 260 265 270

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Input Set : N:\Crf3\RULE60\09852209A.txt
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376 Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu
378 275 280 285
382 His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser Lys Val Thr Lys Lys
384 290 295 300
388 Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr Gly Val Arg Gly Leu
390 305 310 315 320
394 His Lys Ser Leu Thr Asp Val Ala Leu Glu His His Glu Glu Cys Asp
396 325 330 335
400 Cys Val Cys Arg Gly Ser Thr Gly Gly
402 340 345
408 <210> SEQ ID NO: 4
410 <211> LENGTH: 1536
412 <212> TYPE: DNA
414 <213> ORGANISM: Homo sapiens
418 <400> SEQUENCE: 4
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422 agagaattat tactgtgtct actaatggaa gtattcacag cccaaagggtt cctcataactt 120
424 atccaaagaaa tacggtcttg gtatggagat tagtagcagt agaggaaaat gtatggatac 180
426 aacttacgtt tgatgaaaga tttgggcttg aagacccaga agatgacata tgcaggatgt 240
428 attttgtaga agttgaggaa cccagtgtatg gaactatatt agggcgctgg tgggttctg 300
430 gtactgtacc aggaaaacag atttctaaag gaaatcaaatt taggataaga tttgtatctg 360
432 atgaatattt tccttctgaa ccagggttct gcattccacta caacattgtc atgccacaat 420
434 tcacagaagc tggatgtcct tcagtgtac ccccttcagc tttgccactg gacgtgttta 480
436 ataatgttat aactgcctt agtaccttgg aagaccttat tcgatatactt gaaccagaga 540
438 gatggcagggtt ggacttagaa gatctatata ggccaaacttg gcaacttctt ggcaaggctt 600
440 ttgtttttgg aagaaaatcc agagtggtgg atctgaacct tctaacaagag gaggttaagat 660
442 tatacagctg cacacctcgt aacttctcaag tggatgttcaag ggaagaacta aagagaaccc 720
444 ataccatttt ctggccaggt tggatgttcaag ttaaacgttgc tggatgttca 780
446 gtctccacaa ttgcaatgaa tggatgttgc tcccaagcaa agttactaaa aaataccacg 840
448 aggtccttca gttgagacca aasaccgggt tcagggttgc gcaacaaatca ctcaccgacg 900
450 tggcccttgg gcaccatgag gatgtgtact gtgtgtgcag agggagcaca ggaggatagc 960
452 cgcacatccca ccagcagctc ttgcccagag ctgtgcagtg cagtggctga ttctattaga 1020
454 gaacgtatgc gttatctcca tccttaatct cagttgttttgc tttcaaggac ctttcatttt 1080
456 caggatttac agtgcattct gaaagaggag acatcaaaca gaatttaggag ttgtgcacaca 1140
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460 taaatgttgtt attaaataga tcaccagctt gtttcagat taccatgtac gtattccact 1260
462 agctgggttc tggatgttcaag ttcttcgtat acggcttgg gtaatgtcag tacaggaaaa 1320
464 aaactgtgca agtgaccc tgattccgtt gcctgttca actctaaagc tccatgtcct 1380
466 gggcctaaaaa tcgtataaaaa tctggatttt tttttttttt tttgctcata ttccatatg 1440
468 taaaccagaaa cattctatgt actacaaacc tggtttttaa aaaggaacta tggatgtatg 1500
470 aattaaactt gtgtcatgct gataggacag actgta 1536
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476 <211> LENGTH: 318
478 <212> TYPE: PRT
480 <213> ORGANISM: Homo sapiens
484 <400> SEQUENCE: 5
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488 1 5 10 15
492 Pro Gln His Glu Arg Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His

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Input Set : N:\Crf3\RULE60\09852209A.txt
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494 20 25 30
498 Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp
500 35 40 45
504 Arg Leu Val Ala Val Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp
506 50 55 60
510 Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp
512 65 70 75 80
516 Phe Val Glu Val Glu Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp
518 85 90 95
522 Cys Gly Ser Gly Thr Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln
524 100 105 110
528 Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly
530 115 120 125
534 Phe Cys Ile His Tyr Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val
536 130 135 140
540 Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn
542 145 150 155 160
546 Asn Ala Ile Thr Ala Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu
548 165 170 175
552 Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr
554 180 185 190
558 Trp Gln Leu Leu Gly Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val
560 195 200 205
564 Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr
566 210 215 220
570 Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp
572 225 230 235 240
576 Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn
578 245 250 255
582 Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser
584 260 265 270
588 Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr
590 275 280 285
594 Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp Val Ala Leu Glu His
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600 His Glu Glu Cys Asp Cys Val Cys Arg Gly Ser Thr Gly Gly
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610 <211> LENGTH: 1474
612 <212> TYPE: DNA
614 <213> ORGANISM: Murinae gen. sp.
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620 <221> NAME/KEY: unsure
622 <222> LOCATION: (1447)
624 <223> OTHER INFORMATION: can be a, c, g or t
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634 ccgggctggg ctgagccttg gagtgcgtgc ttccccagtg cccgccccgga gtgagccctc 180

VERIFICATION SUMMARY
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L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:2584 M:259 W: Allowed number of lines exceeded, <223> Other Information: